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Supporting Information

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Multiple-Interval Mapping for Quantitative Trait Loci With a Spike in the Trait Distribution

Wenyun Li and Zehua Chen

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FILE S1**Multiple Interval Mapping for Quantitative Trait Loci with a Spike in the Trait Distribution****Wenyun Li and Zehua Chen**

In this supporting information, we provide the genetic map used in the simulation studies of the paper. It is the genetic map of a mouse genome extracted from the Listeria data of BOYARTCHUK *et al.* (2001). The map contains 132 markers on 20 chromosomes. On each chromosome, any two adjacent markers form an interval. The markers form a total of 112 intervals. In the following tables, the intervals on each chromosome together with their lengths (in cM) and the positions of the flanking markers (indicated by genetic distance in cM from the left end of the chromosome) are provided.

TABLE S1**The genetic map of the mouse genome in the *Listeria* data**

Chrom.	Interval	Inte-length	Left-marker	Right-marker
1	1	0.99675	0.00000	0.99675
1	2	23.85098	0.99675	24.84773
1	3	15.56588	24.84773	40.41361
1	4	9.58107	40.41361	49.99468
1	5	2.80552	49.99468	52.80020
1	6	17.31184	52.80020	70.11204
1	7	0.69438	70.11204	70.80642
1	8	9.81682	70.80642	80.62324
1	9	0.77299	80.62324	81.39623
1	10	3.53851	81.39623	84.93474
1	11	7.74920	84.93474	92.68394
1	12	0.95950	92.68394	93.64344
2	1	27.94171	0.00000	27.94171
2	2	19.16370	27.94171	47.10541
2	3	20.15644	47.10541	67.26185
2	4	10.13620	67.26185	77.39805
2	5	13.45825	77.39805	90.85630
3	1	32.47839	0.00000	32.47839
3	2	11.45964	32.47839	43.93803
3	3	13.65535	43.93803	57.59338
3	4	5.59202	57.59338	63.18540
3	5	7.65360	63.18540	70.83900
4	1	19.16072	0.00000	19.16072
4	2	16.16014	19.16072	35.32086
4	3	32.78230	35.32086	68.10316
5	1	6.10396	0.00000	6.10396
5	2	13.11939	6.10396	19.22335
5	3	0.32548	19.22335	19.54883
5	4	4.16831	19.54883	23.71714
5	5	1.78295	23.71714	25.50009
5	6	5.39656	25.50009	30.89665
5	7	0.00100	30.89665	30.89765

TABLE S2**The genetic map of the mouse genome in the *Listeria* data (Cont.)**

Chrom.	Interval	Inte-length	Left-marker	Right-marker
5	8	2.00757	30.89765	32.90522
5	9	5.16285	32.90522	38.06807
5	10	5.95569	8.06807	44.02376
5	11	6.96095	44.02376	50.98471
6	1	8.18754	10.00000	18.18754
6	2	5.68464	18.18754	23.87218
6	3	7.22192	23.87218	31.09410
6	4	10.70096	31.09410	41.79506
6	5	3.35073	41.79506	45.14579
6	6	2.38411	45.14579	47.52990
6	7	3.71746	47.52990	51.24736
6	8	0.40337	51.24736	51.65073
6	9	3.65405	51.65073	55.30478
6	10	3.70510	55.30478	59.00988
6	11	0.36101	59.00988	59.37089
6	12	1.39155	59.37089	60.76244
7	1	18.78851	0.00000	18.78851
7	2	16.12211	18.78851	34.91062
7	3	6.11986	34.91062	41.03048
7	4	19.08361	41.03048	60.11409
7	5	11.97015	60.11409	72.08424
8	1	1.33987	0.00000	1.33987
8	2	10.08104	1.33987	11.42091
8	3	15.71975	11.42091	27.14066
8	4	5.84559	27.14066	32.98625
8	5	17.87739	32.98625	50.86364
9	1	4.21823	0.00000	4.21823
9	2	10.49742	4.21823	14.71565
9	3	12.60852	14.71565	27.32417
9	4	5.63227	27.32417	32.95644
9	5	12.37923	32.95644	45.33567
9	6	7.16837	45.33567	52.50404

TABLE S3**The genetic map of the mouse genome in the *Listeria* data (Cont.)**

Chrom.	Interval	Inte-length	Left-marker	Right-marker
10	1	24.74745	0.00000	24.74745
10	2	15.96238	24.74745	40.70983
10	3	8.02021	40.70983	48.73004
10	4	12.32617	48.73004	61.05621
11	1	15.15394	0.00000	15.15394
11	2	11.26755	15.15394	26.42149
11	3	12.09996	26.42149	38.52145
11	4	3.63994	38.52145	42.16139
11	5	22.18342	42.16139	64.34481
12	1	6.17921	0.00000	6.17921
12	2	15.40130	6.17921	21.58051
12	3	7.50353	21.58051	29.08404
12	4	12.71165	29.08404	41.79569
12	5	12.66013	41.79569	54.45582
13	1	0.28675	0.00000	0.28675
13	2	10.07913	0.28675	10.36588
13	3	2.68395	10.36588	13.04983
13	4	0.00100	13.04983	13.05083
13	5	5.85801	13.05083	18.90884
13	6	2.10374	18.90884	21.01258
13	7	3.86273	21.01258	24.87531
13	8	1.28423	24.87531	26.15954
13	9	2.23316	26.15954	28.39270
13	10	0.00100	28.39270	28.39370
13	11	7.59337	28.39370	35.98707
14	1	23.90747	0.00000	23.90747
14	2	8.87932	23.90747	32.78679
14	3	12.76343	32.78679	45.55022
15	1	13.46195	0.00000	13.46195
15	2	5.32886	13.46195	18.79081
15	3	0.57392	18.79081	19.36473
15	4	4.54900	19.36473	23.91373

TABLE S4**The genetic map of the mouse genome in the *Listeria* data (Cont.)**

Chrom.	Interval	Inte-length	Left-marker	Right-marker
15	5	1.21277	23.91373	25.12650
15	6	6.14957	25.12650	31.27607
15	7	11.69600	31.27607	42.97207
16	1	16.76684	0.00000	16.76684
16	2	9.46451	16.76684	26.23135
16	3	15.56766	26.23135	41.79901
17	1	11.72823	0.00000	11.72823
17	2	5.60704	11.72823	17.33527
17	3	21.51280	17.33527	38.84807
18	1	0.68560	0.00000	0.68560
18	2	16.29826	0.68560	16.98386
18	3	3.91604	16.98386	20.89990
19	1	16.36398	0.00000	16.36398
19	2	16.46537	16.36398	32.82935
19	3	11.66497	32.82935	44.49432
20	1	42.34593	0.00000	42.34593